

CLAIMS:

- 1.. An alarm system comprising:
an alarm controller,
5 a remote input/output device,
a cable extending from the alarm controller to the
remote input/output device, the cable comprising two
conductors providing power to the remote input/output
device, and
10 a signal processor at the controller monitoring and
processing voltage and current fluctuations in the
conductors and controlling functions of the alarm system.
2. The alarm system of Claim 1 further comprising a
15 mixer at the remote input/output device operative to
affect current and voltage at the two conductors.
3. The alarm system of Claim 1 wherein the signal
processor monitors for predefined voltage and current
20 levels at the two conductors.
4. The alarm system of Claim 2 wherein the mixer applies
predefined voltage and current levels at the two
conductors.